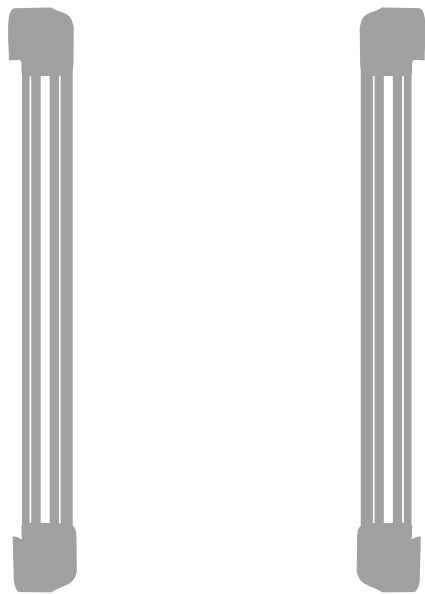


Quad-beam IR Fences (10 Meters)

Manual



Quad-beam IR Fences (10 Meters)Manual

The intelligent quad beam photoelectric beam is an advanced detection device especially designed for outdoor protection. It adopts special optical technique and intelligent control by CPU micro processor to distinguish each infrared beams. Two adjacent beams blocked will cause the alarm. With high anti-interference and stability, it fits well for enclosure wall, door & window, balcony and other perimeters for security purpose.

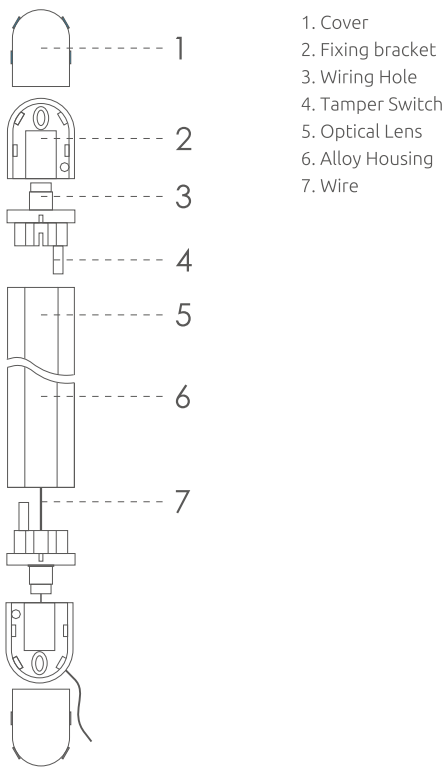
Features

- Invisible beam protection
- Anti-tamper, anti-interference
- Waterproof, moisture proof, indoor & outdoor use
- IR fences 360°ratable
- Slidable bracket easy installation

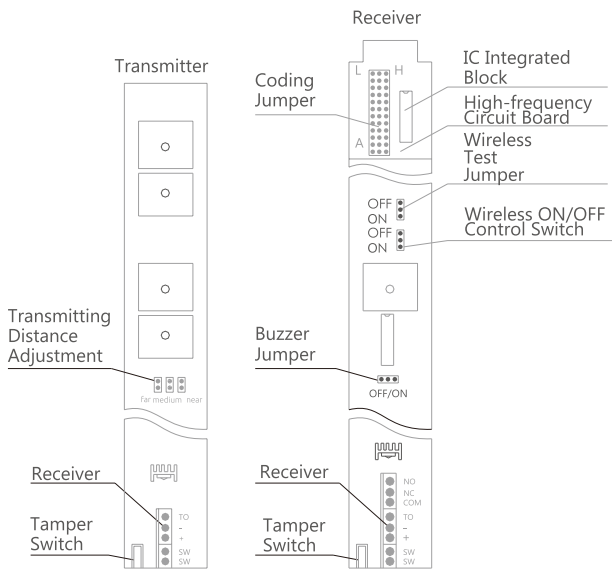
Specifications

- Voltage: DC 12V
- Standby Current: ≤ 160mA (transmitter), ≤70mA (receiver)
- Optical Angle: horizontal 180°(±90°)
- Alert Distance: 10m
- Operating Temperature: - 35℃~+ 55℃
- Operating Humidity : ≤95%RH relative humidity
- Beam Length: 63cm

Parts Description-Exterior View



Parts Description-Interior View



Transmitting Distance:Low for short distance, MID for medium distance, FAR for far distance.
Tamper Switch:Once the case is opened in arming state, the tamper switch will be triggered, generating an alarm signal.

Using Photoelectric Beam

Before using it, the transmitter and receiver should be aligned to each other and enrolled to the alarm control panel.

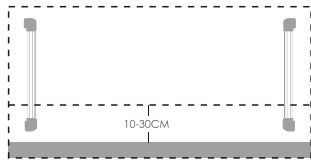
Enrolled to Control Panel

When the control panel is in enrolling state, power on the beam receiver and transmitter, then trigger the sensor to generate an alarm signal to the control panel, when the control panel beeps once, the sensor has been enrolled successfully. The detector is set in 24-Hour Zone as default.

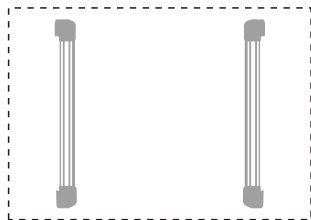
Installation

1. Install the system with a clear line-of-sight between the Transmitter and Receiver. If installed outdoors, make sure trees, weeds, plants, etc. will not interfere with the beams.
2. Install the transmitter and receiver at the opposite site of entrance within the maximum range.
3. Place them at the same height, same surface with adapter cable at below.
4. Adjust the receiver case, turn the case left until buzzer beeps, mark the angle. Turn the case right until buzzer beeps, then mark the angle as well. The point between this two angle will be the right optical place.
5. To verify that the IR beams are not misaligned, block any beam of receiver by hands up and down, if the buzzer does not beep, the place is right. If the buzzer beeps, adjust horizontal angle of the receiver slightly, until buzzer does not beep.

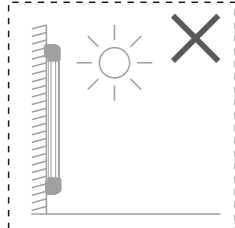
3. The recommended mounting height is 10cm~30cm from the ground to lowest beam. It can be changed depends on the anticipated intruder catch area.



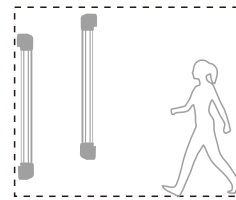
4. The beams are recommend to be installed horizontally.



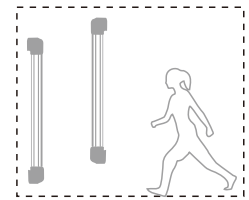
5. Keep case clean to ensure the beams work properly.
6. To avoid false alarm or missed alarm, the transmitting distance jumper should be adjusted to "FAR" if the beams are used under the outdoor severe environment. If the transmitting signal is too strong, adjust it to be "LOW".
7. In case of the power failure, it's recommended to use the UPS rechargeable power supply to ensure the beams work properly.
8. It's better to place the power cable into a slot to avoid facing an intense source of light.



Walk & Run Test



Walk across the beams between transmitter and receiver at speed of 0.3m/s

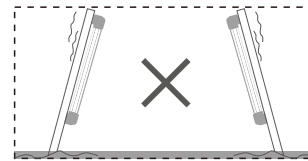


Run across the beams between transmitter and receiver at speed of 4m/s

Both test should be passed so the alignment is successful.

Notice

1. Do not install either the Receiver or the Transmitter on movable surfaces or surfaces subject to strong vibrations.



2. No obstacles between transmitter and receiver.



Trouble Shooting

Symptom	Possible Cause	Remedy
LED (transmitter or receiver) does not light.	Improper voltage supplied.	Check the power supply and wiring.
When the beams are blocked, the receiver LED does not light.	The infrared beam from transmitter is reflected from other objects.	Remove reflecting object or change the installation direction.
	Two adjacent beams are not blocked at the same time.	Ensure two adjacent beams should be blocked at the same time.
	The transmitting signal is too strong.	Adjust the transmitting distance jumper to be LOW or MID.
Alarm LED on receiver does not turn off.	Optical axis not aligned.	Readjust the optical axis.
	Blocking object between transmitter and receiver.	Remove the blocking objects.
	Dirty cover or reflecting mirror at transmitter.	Clean optics with soft cloth.
Intermittent Alarm.	Bad wiring connection.	Check wiring connection.
	Change of supply voltage.	Check for stabilized voltage.
	Blocking objects blowing between transmitter.	Remove blocking objects or change.
	Unstable sensor mounting.	Stabilize mounting.
	Marginal optical axis alignment.	Readjust the optical axis.
False Alarm	Low or unstable power supply.	Change the power adapter.
	Improper installation.	Adjust the bracket.
	Bad transmitting signal.	Adjust transmitting distance jumper to be FAR.